

One (1) PhD student position in the project**“SMILE”****Search for Milli-lenses to discriminate between dark matter models***(Call: ERC-2021-STG, GA 101040021)**Funded under HORIZON.1.1 - European Research Council (ERC)***Funded by
the European Union****Ref. 93876****Heraklion, 15.11.2022**

The Institute of Astrophysics (IA) of the Foundation for research and Technology Hellas (FORTH), in the framework of the project SMILE, (Call: ERC-2021-STG, Proposal number: 101040021) funded under HORIZON-EUROPE.1.1. - European Research Council (ERC) is seeking to recruit one (1) PhD student position.

Title: Automation of CASA-based pipelines for bulk processing of VLBI data to obtain high-fidelity images in the framework of SMILE.

Job Description

PhD student position in Very Long Baseline Interferometry (VLBI) data calibration and analysis mainly using the Common Astronomy Software Applications (CASA) package. The primary objective of the current Ph. D. position is the development of a CASA pipeline that can be used to calibrate a substantial amount of VLBI data without the need of human intervention. The Ph. D. candidate will also focus on the follow-up and scientific exploitation of data of sources which have high probability of being milli-lens systems, as well as sources which instead have been discarded as milli-lens candidates but they still make interesting scientific cases.

Required qualifications

The successful candidate needs to have a Bachelor Degree and Master Degree in Physics (or related fields) and good programming skills. Moreover, the candidate has to be already enrolled in a PhD program.

The aforementioned required qualifications will be judged as follows:

- Degree titles and past research experience (50%)
- Experience in scripting in Python (50%)

Location: IA - FORTH, Heraklion Crete GREECE

Start Date: 1st February, 2022

Project Duration: 36 months

Monthly salary: 1100 euros (net)

Application Submission

Interested candidates who meet the aforementioned requirements are kindly asked to submit their applications, no later than **December 1st, 2022, 23:59 local Greece** time to the address (info@ia.forth.gr), with cc to Dr. Carolina Casadio (ccasadio@ia.forth.gr).

In order to be considered, the application must include:

- Application Form (please download file from the job announcement webpage <https://www.ia.forth.gr/employment-opportunities>)
- Brief CV
- Scanned copies of academic titles
- Document attesting the acceptance in a PhD program

Any application received after the deadline will not be considered for the selection

Contact

For information and questions regarding the application and selection procedure, candidates are asked to contact the secretariat (info@ia.forth.gr), tel. +30 2810-394200.

For information and questions about the advertised position and the research activity of the group, please contact Dr. Carolina Casadio (ccasadio@ia.forth.gr).

Selection Announcement

The result of the selection will be announced on the website of IA - FORTH.

Candidates have the right to appeal the selection decision, by addressing their written objection to the IA secretariat within five (5) days since the results announcement on the web. They also have the right to access (a) the files of the candidates as well as (b) the table of candidates' scores (ranking of candidates results). All the above information related to the selection procedure will be available at the secretariat of IA - FORTH in line with the Hellenic Data Protection Authority.

GDPR

FORTH is compliant with all legal procedures for the processing of personal data as defined by the Regulation EU/2016/679 on the protection of natural persons with regard to the processing of personal data.

FORTH processes the personal data and relevant supporting documents that you have submitted to us. Processing of that data is carried out exclusively for the needs and purposes of this specific call. Such data shall not be transmitted to or communicated to any third party unless required by law.

FORTH retains the above data up to the announcement of the final results of the call, unless further process and reservation is required by law or for purposes of exercise, enforcement, prosecution of certain one's legitimate legal rights' as defined in the Regulation EU/2016/679 and/or in national law.

We inform you that under the Regulation EU/2016/679 you have the rights to be informed about your personal data, access to, rectification and erasure, restrictions of process and objection to as provided by applicable regulation and national laws.

We acknowledge also to you, that you have the right to file a complaint to the national Data Protection Authority. For any further information regarding exercise of your personal data protection rights, you may contact the Data Protection Officer at FORTH at dpo@admin.forth.gr. You have the right to withdraw your application and consent for the processing of your personal data at any time. We inform you that, in this case, FORTH shall destroy such documents and/or supporting documents submitted and shall delete the related personal data.